

## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

### **Listing of claims:**

1. - 41. (Cancelled)
42. (allowed) An isolated polynucleotide comprising a nucleic acid sequence encoding a polypeptide SEQ ID NO: 38.
43. (currently amended) An isolated polynucleotide comprising a nucleic acid sequence encoding ~~the mature form~~ amino acids 337-2721 of the polypeptide SEQ ID NO: 38.
44. (allowed) An isolated polynucleotide comprising a nucleic acid sequence SEQ ID NO: 37.
45. (currently amended) An isolated polynucleotide comprising a nucleic acid sequence ~~encoding~~ that is the full length complement of the polynucleotide SEQ ID NO:37.
46. (allowed) A vector comprising the nucleic acid sequence of claim 42.
47. (allowed) The vector of claim 46, further comprising a promoter operably-linked to said nucleic acid molecule.
48. (canceled)
49. (allowed) A composition comprising the polynucleotide of claim 42 and a carrier.
50. (allowed) An isolated polynucleotide consisting of a nucleic acid sequence encoding a polypeptide SEQ ID NO: 38.
51. (canceled)
52. (currently amended) A single nucleotide polymorphism of claim 42 encoding encoding a variant of the polynucleotide of claim 42 SEQ ID NO: 38, which encodes serine wherein serine is changed to proline at amino acid residue 27.

53. – 54. (canceled)

55. (currently amended) A single nucleotide polymorphism of claim 42 encoding  
encoding a variant of the polynucleotide of claim 42 SEQ ID NO: 38, which encodes lysine  
wherein lysine is changed to glutamic acid at amino acid residue 39.

56. (canceled)

57. (currently amended) A single nucleotide polymorphism of claim 42 encoding  
encoding a variant of the polynucleotide of claim 42 SEQ ID NO: 38, which encodes lysine  
wherein arginine is changed to glycine at amino acid residue 76.

58. (canceled)

59. (currently amended) A single nucleotide polymorphism of claim 42 encoding  
encoding a variant of the polynucleotide of claim 42 SEQ ID NO: 38, which encodes lysine  
wherein alanine is changed to threonine at amino acid residue 220.

60. (canceled)

61. (currently amended) A single nucleotide polymorphism of claim 42 encoding  
encoding a variant of the polynucleotide of claim 42 SEQ ID NO: 38, which encodes lysine  
wherein glutamine is changed to arginine at amino acid residue 236.

62. (canceled)

63. (currently amended) A single nucleotide polymorphism of claim 42 encoding  
encoding a variant of the polynucleotide of claim 42 SEQ ID NO: 38, which encodes lysine  
wherein glycine is changed to arginine at amino acid residue 270.